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AUTOMOBILE CLOTHES HANGER BRACKET

Field of the invention

The present invention relates to clothes hangers for the use in an automobile, and more particularly to an automobile clothes hanger bracket that provides: a better retaining effect achieved by two mounting units that connect the extended rods of a hanger part and the head piece rods of the head piece of a car seat, each of the mounting units further including a rod holder, an extended bar and a control member for providing a locking mechanism; more convenient replacement of parts since the hanger part and the mounting units are separated.

Description of the Prior Art

Referring to Fig.1 and 2, an automobile clothes hanger of the prior art comprises a substantially T-shaped hanger part 10 and two extended rod 11, 12 each provided with an embedding member 13 having an embedding slot 14. To use the clothes hanger, the extended rods 11, 12 are pressed toward each other, so that the embedding members 13 thereof can be disposed between two head piece rods 3 of the head piece 2 of a car seat 1. Thereby, the head piece rods 3 can be embedded into the embedding slots 14 of the embedding members 13, and the hanger part 10 is mounted on the back side of the car seat 1 for hanging clothes.

However, the automobile clothes hanger bracket of the prior art has the following disadvantages. Firstly, since the holding of the head piece rods 3 in the embedding slots 14 of the embedding members 13 is not fully closed, it is possible that an foreign object pulls the hanged clothes, causing the hanger part 10 to fall off. Secondly, since that the embedding members 13 are integrally connected with the extended rods 11, 12 of the hanger part 10 and that the embedding slots 14 are not tough, once the embedding slots

14 are broken due to external forces, the whole clothes hanger bracket will be wasted.

Summary of the Invention

5 Accordingly, the primary objective of the present invention is to provide an automobile clothes hanger bracket having mounting units separated from the hanger part. The holding members of the mounting units entirely encircle the head piece rods of the head piece of a car seat, so that falloff of the clothes hanger bracket by pulling is not possible. Each of the
10 mounting units is composed of a rod holder, an extended bar and a control member. The rod holders are for respectively holding a head piece rod of the head piece of a car seat, They are connected to the control members by the extended bars. The extended bars, the rod holders and the control members are respectively provided with a insertion hole, so that a through
15 hole can be formed in each of the mounting units; the through hole is for receiving an extended rod from the hanger part. The control members and the extended rods are further provided with locking mechanisms, so that the rods can be secured in the mounting units.

 The secondary objective of the present invention is to provided an
20 automobile clothes hanger bracket wherein the mounting units are replaceable when they are broken. Since the mounting units are separated from the hanger part, the replacement can be done without any difficulty.

 The various objects and advantages of the present invention will be more readily understood from the following detailed description when read
25 in conjunction with the appended drawings.

Brief Description of the Drawings

 Fig.1 is a perspective view of an automobile clothes hanger bracket of the prior art.

Fig.2 is a front view of the automobile clothes hanger bracket in Fgi.1 and its A-A cross-sectional view.

Fig.3 is a cross-sectional view of a local region of the present invention and its A-A cross-sectional view.

5 Fig.4 illustrates the process of mounting the present invention on the back of a car seat.

Fig.5 is a perspective view of the present invention mounted on the back of a car seat.

10 Fig.6 illustrates the securing mechanism of the present invention with a car seat.

Detailed Description of the Preferred Embodiment

Referring to Fig.3, 4, 5 and 6, an automobile clothes hanger bracket according to the present invention comprises a hanger part 20 having two extended rods 21, 22 and two identical mounting units 30. The
15 extended rods 21, 22 are each provided with a locking notch 23, and the mounting units 30 each further include a rod holder 32, an extended bar 31 and a control member 33. Each of the rod holders 32 is a hollow cylinder having an axial through hole for holding a head piece rod 3. The extended
20 bars 31 are each provided with an axially extended insertion hole 330. The control members 33 are substantially hollow bodies each with a closed bottom side. The hollow portions of the control member 33 form insertion holes 330, which are connected to the insertion holes 310 of the extended bars 31. The upper section of the inner wall of the insertion hole 330 of
25 each control member 33 is provided with a locking flange 34. A spring and a control knob 36 are disposed within each of the control member 33. The control knobs 36 are each provided with a through hole 360 that corresponds to the insertion hole 330 of the control member 33 and the insertion hole 310 of an extended bar 31. A block 39 is formed at the

bottom end of each of the through holes 360. Each of the blocks 39 is provided with an insertion section 37 for receiving a spring 35. The bottom end of each of the control knobs 36 is provided with a slit 38. As the control knobs 36 are inserted into the control members 33, the blocks 39 are respectively secured by the locking flanges 34 of the control members 33, thereby prohibiting the control knobs 36 from leaving the control members 33. Pushing the control knob 36 of a control member 33 downward, the through hole 360 thereof can be aligned with the insertion hole 330 of the control member 33 and the insertion hole 310 of the extended bars 31, so that an extended rod (21 or 22) can be inserted through. Without pushing a control knob 36, the associated spring 35 urges the control knob 36 upward, and the through hole 360, the insertion hole 330 and the insertion hole 310 are not connected.

To use the automobile clothes hanger bracket, the head piece 2 is firstly removed from the car seat 1, as shown in Fig.4. (A). The head piece rods 3 of the head piece 2 are each inserted through a rod holder 32 of a mounting unit 30 and then into the car seat 1, as shown in Fig.4. (B). To hang clothes, the control knobs 36 of the control members 33 are firstly pressed downward so that the through holes 360 thereof are aligned with the insertion holes 330 of the control members 33 and the insertion holes 310 of extended bars 31. The extended rods 21, 22 of the hanger part 20 are then inserted into the insertion holes 330 of the control members 33, the insertion holes 310 of extended bars 31 and the through holes 360 of control knobs 36. The control knobs 36 are then released, and the springs 35 urge the control knobs 36 upward, so that the blocks 39 of the control knobs 36 are engaged with the locking notches 23 of the extended rods 21, 22. Thereby, the extended rods 21, 22 cannot be drawn out of the mounting units 30. The above operation are illustrated in Fig.6 (A) and (B). To remove the hanger part 20, the control knobs 36 are pushed downward

again, so that the blocks 39 are departed from the locking notches 23; therefore, the extended rods 21, 22 can be drawn out of the mounting units 30.

According to the aforesaid description, the present invention has at least the following advantages. Even if the hanger part 20 is not used, the mounting units 30 can stay on the head piece rods 3 of a car seat 1. Thereby, the hanger part 20 does not occupy the car space. Since the rod holders 32 of the mounting units 30 entirely hold the head piece rods 3, it is not possible that the automobile clothes hanger bracket would fall off the car seat 1 by external dragging. Since the hanger part 20 and the mounting units 30 are separated, a broken mounting unit 30 can be replaced alone, without wasting the whole automobile clothes hanger bracket. Mounting and dismounting of the hanger part 20 is simply achieved by pressing the control knobs 36 of the mounting units 30.

The present invention is thus described, and it will be obvious that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the present invention, and all such modifications as would be obvious to one skilled in the art are intended to be included within the scope of the following claims.